

1 1. A glucose meter comprising:

2 (a) means for processing a blood sample of a patient to provide a glucose
3 measurement; and

4 (b) a communication interface to send data including said glucose measurement to a
5 processing center and to receive data from said processing center, wherein said processing means
6 is responsive to said data received from said processing center for modifying the processing of
7 the blood sample to provide an adjusted glucose measurement.

1 2. The glucose meter of claim 1 wherein said processing means comprises a circuit for
2 analyzing a test strip containing said blood sample to provide said glucose measurement.

1 3. The glucose meter of claim 2 wherein said data sent to said processing center through
2 said communication interface further includes a calibration code associated with said test strip.

1 4. The glucose meter of claim 3 wherein said data received from said processing center
2 includes an aging factor indicative of variation in said test strip over time.

1 5. The glucose meter of claim 1 wherein said data sent to said processing center through
2 said communication interface further includes an identifier of said patient.

1 6. The glucose meter of claim 5 wherein said data received from said processing center
2 includes a permissible glucose deviation for said patient.

1 7. A glucose metering system comprising:

2 (a) a glucose meter for processing a patient's blood sample on a test strip to provide a
3 glucose measurement; and

4 (b) a processing system coupled to said glucose meter and comprising means for
5 collecting a plurality of said glucose measurements and for processing said plurality of glucose
6 measurements to provide a modified method for processing said blood sample to provide an
7 adjusted glucose measurement.

1 8. The glucose metering system of claim 7 wherein said modified method for processing
2 said blood sample is performed by said processing system and said adjusted glucose
3 measurement is sent by said processing system to said glucose meter.

1 9. The glucose metering system of claim 7 wherein said modified method for processing
2 said blood sample is performed by said glucose meter.

1 10. The glucose metering system of claim 8 wherein said modified method for processing
2 said blood sample is a function of a permissible glucose deviation for said patient.

1 11. The glucose metering system of claim 8 wherein said modified method for processing
2 said blood sample is a function of an aging factor indicative of variations in said test strip over
3 time.

1 12. A glucose metering system comprising:

2 (a) a glucose meter for processing a blood sample on a test strip having a response
3 curve to provide a glucose measurement; and

4 (b) a processing system coupled to and located remotely from said glucose meter,
5 said processing system comprising means for collecting data including a plurality of said glucose
6 measurements from said glucose meter and a description of said response curve and for
7 processing said data to provide an aging factor indicative of variations in said test strip over time,
8 wherein said aging factor is used to provide said adjusted glucose measurement.

1 13. The glucose metering system of claim 12 wherein said adjusted glucose measurement is
2 provided by said glucose meter.

1 14. The glucose metering system of claim 12 wherein said adjusted glucose measurement is
2 provided by said processing system.

1 15. The glucose metering system of claim 12 wherein said description of said response curve
2 comprises a single number code.

1 16. The glucose metering system of claim 12 wherein said description of said response curve
2 comprises a polynomial equation.

1 17. A method for providing a glucose measurement comprising the steps of:
2 sending a plurality of glucose measurements of a patient from a glucose meter to a
3 remotely located processing center;
4 evaluating said plurality of glucose measurements to derive a permissible glucose
5 deviation for said patient; and
6 processing a glucose measurement of said patient in response to said permissible glucose
7 deviation in order to determine whether said measurement is an accurate measurement or an
8 artifact.

1 18. A method for enhancing the care of a patient using a glucose meter comprising the steps of:
2 sending data including a glucose measurement and meal information from a glucose
3 meter to a remotely located processing center;
4 processing said data by said processing center to provide an instruction for the patient;
5 and
6 sending said instruction to said glucose meter for display to the patient.

1 19. The method of claim 18 wherein said instruction indicates a time when a glucose
2 measurement should be performed.

- 1 20. The method of claim 18 wherein said instruction indicates a medication dosage.

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